

1 DOOR CONDITION SENSOR FOR SAFES AND SECURED AREAS

2 ABSTRACT OF THE DISCLOSURE

3 A door condition sensor for a safe having a door. The
4 sensor has a housing mounted on an inside surface of the door,
5 frame engageable means for abutting the door frame, a driver
6 rotatably mounted in the housing, analog signal generator
7 mounted in the housing having a rotatable part driven by the
8 driver, and spring for extending the frame engageable means
9 that is slideably mounted and confined to linear displacement
10 in the housing. The driver transforms displacement of the
11 frame engageable means into rotational orientation of the
12 driver. The generator produces analog signals corresponding
13 to the rotational orientation of the rotatable part. A means
14 converts analog signals from the generator to corresponding
15 digital signals that are proportional to displacement of the
16 frame engageable means. Memory means compares the
17 displacement with a set point range thereby continually
18 monitoring the condition of the door.

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